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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Thomas Forest

0607 1459

6585

7590 03/13/2008  
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EXAMINER

CHERY, DADY

ART UNIT

PAPER NUMBER

2616

MAIL DATE

DELIVERY MODE

03/13/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/613,027	FOREST ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	DADY CHERY	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 21 December 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,14,16 and 18-21 is/are rejected.
- 7) ☒ Claim(s) 3-11 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Response to Amendment***

This communication is responsive to the amendment filed on 12/21/2007.

### ***Response to Arguments***

1. Applicant's arguments filed on 12/21/2007 have been fully considered but they are not persuasive.
2. The applicant's arguments regarding claims 1, 16 and 18 are contradictory. The applicant argues on page 7 of the remarks that Temple does not disclose "a bus guardian having a priory knowledge concerning possible deviations from the communication media access schedule during start up." Later on page 8 of the remarks the applicant says: Temple discloses a bus guardian that can only detect a disagreement between the stored temporal access pattern and the actual behavior of the node. By giving the word "deviation" the broadest interpretation, the "disagreement" between the stored temporal access and the actual behavior of the node is considered having the same function as possible deviation from the communication media access.
3. Furthermore, temple teaches the sequence in which the node access the bus is know a priori as it is defined during the design of the system (Paragraph 2.2, lines 18 – 24). This is the same function as during the startup. Therefore, the claimed invention is anticipated by Temple.

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 2, 14, 16 and 18-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Temple ("Avoiding the Babbling- Idiot in Time- Triggered Communication System" June 1998).

Regarding claims 1, 14, 16 and 18, Temple discloses *a method for monitoring a communication media access schedule of a communication controller in a communication system (Fig. 1) by means of a bus guardian, the communication system comprising a communication media (Broadcast Bus) and nodes connected to the communication media, each node having a communication controller (Processing system) and a bus guardian assigned to the communication controller, wherein messages are transmitted among the nodes across the communication media based on a cyclic time triggered communication media access scheme (Paragraph 2.2), The method discloses by Temple monitors the communication media by means of bus guardian and communication controller based on cyclic time triggered communication, the method comprising the steps of:*

a) *providing the bus guardian with a priori knowledge about possible deviations from the communication media access schedule during startup of the communication* (Paragraph 2.2, lines 18 –24);

b) *using said a priori knowledge of the bus guardian during startup of the communication to distinguish between an allowed deviation and a forbidden deviation caused by a failure of the communication controller* (Paragraph 2.2, lines 18 –24 and Paragraph 3.1, lines 1- 12). Where the bus guardian does not execute any part of the communication protocol due to a system failure.

The bus driver is considered as the means for monitoring the communication media and the bus guardian is considered as the means for utilizing and making use of the priori knowledge of the deviation.

Regarding claims 2 and 19, Temple discloses *a method wherein allowed deviations from the communication media access schedule during startup of the communication are represented by reset information (SR) and by a chronological occurrence of the reset information (SR), wherein the bus guardian monitors the reset information (SR) and the chronological occurrence of the reset information (SR) during startup of the communication* (Paragraph 3.2, lines 39 –52). A startup test is required to assure correct functionality and reset signal is applied to each node in the event of an error are considered as the same function as describe by the instant application. The chronological occurrence of the reset signal during start up is inherent to the system.

Regarding claim 12-13, Temple discloses computer readable medium including RAM and ROM for storing the computer program to execute the method of claim 1 (Fig. 1). The nodes disclosed by temple are computer and every computer has memory (RAM and ROM).

Regarding claim 21, Temple disclose the method of claim 1, wherein, during startup of the communication, the communication controller of one of the nodes transmits a first trigger signal (ARM) to a bus guardian assigned to that communication controller (Paragraph 2.2, lines 18 –24 and Paragraph 3.2, lines 39 -52).

### ***Allowable Subject Matter***

3. Claims 3-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### ***Conclusion***

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DADY CHERY whose telephone number is (571)270-1207. The examiner can normally be reached on Monday - Thursday 8 am - 4 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Q. Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ricky Ngo/  
Supervisory Patent Examiner, Art  
Unit 2616

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